

[illegible]

[illegible]

[illegible]

FIG. 2B

aat gaa gac atg aaa gaa atg aaa gag aat gag atg aaa ccc tca gaa 1027
 Asn Glu Asp Met Lys Glu Met Lys Glu Asn Glu Met Lys Pro Ser Glu
 140 145 150

gcc agg gtc ccc cag ctg agc agc ctg gaa ctg agg aga tat ttc cac 1075
 Ala Arg Val Pro Gln Leu Ser Ser Leu Glu Leu Arg Arg Tyr Phe His
 155 160 165

agg ata gac aat ttc ctg aaa gaa aag aaa tac agt gac tgt gcc tgg 1123
 Arg Ile Asp Asn Phe Leu Lys Glu Lys Lys Tyr Ser Asp Cys Ala Trp
 170 175 180

gag att gtc cga gtg gaa atc aga aga tgt ttg tat tac ttt tac aaa 1171
 Glu Ile Val Arg Val Glu Ile Arg Arg Cys Leu Tyr Tyr Phe Tyr Lys
 185 190 195

ttt aca gct cta ttc agg agg aaa taaggatat ttttgaatt aaaattcctt 1225
 Phe Thr Ala Leu Phe Arg Arg Lys
 200 205

ttccctccga aatctctttc tcttctcct cctccatctt ctttttaagg attgttgtgc 1285
 tgtcctgtaa gcctgtcctc agttggactg gtagcctcgg aacatcaggg acactcacct 1345
 ctctaaggag aggtaatgcc aaccatcctc agggtagacca agagtctcct tagaaagtct 1405
 ttaagacatt tttaaaggaa taagattccc tctccgtctt cttctattct ctcttgctct 1465
 tttctgtggc cattttgaaa gagctttgct atatatacca cctgtggact tcaccaagac 1525
 aatggctaga ggatagggag cagagaatgt tgcaaaatgg taacatttca atgacttaac 1585
 tgttttgctg ccaaggttgc ttatcctatg aaaattcagc acattaagag agcttataca 1645
 tgctccctag agtcaatact cttgcatttt cccctcctg ctcgggggga aaaagggtga 1705
 catttctggc ccatttcctt ctgagcttgg tttgtttgaa ttgatgcttg tggaatggta 1765
 tttcattact ttaagagtga agatccatag tgaaattgga tggatgggtg aattagacga 1825
 ccattaagct t 1836

1027
 1075
 1123
 1171
 1225
 1285
 1345
 1405
 1465
 1525
 1585
 1645
 1705
 1765
 1825
 1836

FIG. 3

	1		50
huIFN-L	MSTKPDMIQK	CLWLEILMGI	FIAGTSLSDC NLLNVHLRRV TWQNLRLHLS
raIFN-L	~~~~~MTLK	YLWLVALVAL	YISPIQSQNCVYLDHT ILENMKLLSS
huIFN-β	~~~~~MTNK	CLLQIALLLC	FSTTALSMSY NLLGFLQRSS NFQCQKLLWQ
cons	-----MT-K	CLWL-AL---	FI---LS--C NLL-V-LR-- --QN-KLLSS
	51		100
huIFN-L	MSNSFPVECL	RENIAFELPQ	EFLQYTQPMK RDIKKAFYEM SLQAFNIFS.
raIFN-L	IRTTFPLRCL	KDITDFEFPQ	EILLYVQHVK KDIKAVTYHI SSLALIIFSL
huIFN-β	LNGRLEY.CL	KDRMNFDIPE	EIKQLQQFQK EDAALTIYEM LQNIFAIFRQ
cons	----FP--CL	KD---FE-PQ	EILQY-Q--K -DIK---YEM S--AF-IFS-
	101		150
huIFN-L	QHTFKYWKER	HLKQIQIGLD	QQAAYLNQCL EEDENENEDM KEMKENEMKP
raIFN-L	KDSISLATEE	RLERIRSGLF	KQVQQARECM VDEENKNT. .EDSTSQHPPH
huIFN-β	DSSSTGWNET	IVENLLANVY	HQINHLKTVL .EEKLEKEDF TRGK.....
cons	--S---W-E-	-LE-I--GL-	-Q---L--CL -EENENED- -E-K-----
	151		200
huIFN-L	SEARVPQLSS	LELRRYFHRI	DNFLKEKKYS DCAWEIVRVE IRRCLYYFYK
raIFN-L	SEGF..KAVY	LELNKYFFRI	RKFLVNKKYS FCAWKIVVVE IRRCFYSIFYK
huIFN-βLMSS	LHLKRYYGRI	LHYLKAKEYS HCAWTIVRVE ILRNFYFINR
cons	SE-----SS	LEL-RYF-RI	--FLK-KKYS -CAW-IVRVE IRRCFY-FYK
	201		
huIFN-L	FTALFRRK		
raIFN-L	LLNMN~~~		
huIFN-β	LTGYLRN~		
cons	LT---R--		

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cat	atg	tgt	gta	tat	ctc	gat	cat	act	atc	ttg	gag	aat	atg	aaa	ctt	48
Met	Cys	Val	Tyr	Leu	Asp	His	Thr	Ile	Leu	Glu	Asn	Met	Lys	Leu		
1				5					10					15		
ctg	agc	agc	atc	cgt	acc	acc	ttt	cct	ctg	cgt	tgt	ctg	aaa	gat	atc	96
Leu	Ser	Ser	Ile	Arg	Thr	Thr	Phe	Pro	Leu	Arg	Cys	Leu	Lys	Asp	Ile	
			20					25						30		
acg	gat	ttt	gag	ttt	cct	caa	gag	att	ctg	ctg	tac	gtc	cag	cat	gtg	144
Thr	Asp	Phe	Glu	Phe	Pro	Gln	Glu	Ile	Leu	Leu	Tyr	Val	Gln	His	Val	
			35					40					45			
aaa	aag	gac	ata	aag	gca	gtc	acc	tat	cat	ata	tct	tct	ctg	gcg	cta	192
Lys	Lys	Asp	Ile	Lys	Ala	Val	Thr	Tyr	His	Ile	Ser	Ser	Leu	Ala	Leu	
		50					55					60				
att	att	ttc	agt	ctt	aaa	gac	tcc	atc	tcc	ctg	gcg	aca	gag	gaa	cgc	240
Ile	Ile	Phe	Ser	Leu	Lys	Asp	Ser	Ile	Ser	Leu	Ala	Thr	Glu	Glu	Arg	
	65					70				75						
ttg	gaa	cgt	atc	aga	tcg	gga	ctt	ttc	aaa	caa	gtg	cag	caa	gct	cga	288
Leu	Glu	Arg	Ile	Arg	Ser	Gly	Leu	Phe	Lys	Gln	Val	Gln	Gln	Ala	Arg	
80					85					90					95	
gag	tgc	atg	gta	gac	gag	gag	aac	aag	aac	acg	gag	gag	gac	agt	aca	336
Glu	Cys	Met	Val	Asp	Glu	Glu	Asn	Lys	Asn	Thr	Glu	Glu	Asp	Ser	Thr	
			100						105					110		
tca	caa	cat	cct	cac	tca	gag	ggc	ttc	aag	gca	gtc	tac	ctg	gaa	ttg	384
Ser	Gln	His	Pro	His	Ser	Glu	Gly	Phe	Lys	Ala	Val	Tyr	Leu	Glu	Leu	
			115					120					125			
aac	aag	tat	ttc	ttc	aga	atc	aga	aag	ttc	ctg	gta	aat	aag	aaa	tac	432
Asn	Lys	Tyr	Phe	Phe	Arg	Ile	Arg	Lys	Phe	Leu	Val	Asn	Lys	Lys	Tyr	
		130					135					140				
agt	ttc	tgt	gcc	tgg	aag	att	gtc	gtg	gtg	gaa	att	cgt	cgt	tgt	ttc	480
Ser	Phe	Cys	Ala	Trp	Lys	Ile	Val	Val	Val	Glu	Ile	Arg	Arg	Cys	Phe	
	145					150				155						
agt	att	ttt	tac	aaa	ctg	ctg	aac	atg	aat	taatggatcc						520
Ser	Ile	Phe	Tyr	Lys	Leu	Leu	Asn	Met	Asn							
160					165											

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Met	Cys	Val	Tyr	Leu	Asp	His	Thr	Ile	Leu	Glu	Asn	Met	Lys	Leu		
1				5					10					15		
ctg	agc	agc	atc	cgt	acc	acc	ttt	cct	ctg	cgt	tgt	ctg	aaa	gat	atc	96
Leu	Ser	Ser	Ile	Arg	Thr	Thr	Phe	Pro	Leu	Arg	Cys	Leu	Lys	Asp	Ile	
			20					25						30		
acg	gat	ttt	gag	ttt	cct	caa	gag	att	ctg	ctg	tac	gtc	cag	cat	gtg	144
Thr	Asp	Phe	Glu	Phe	Pro	Gln	Glu	Ile	Leu	Leu	Tyr	Val	Gln	His	Val	
			35					40					45			
aaa	aag	gac	atc	aag	gca	gtc	acc	tat	cat	atc	tct	tct	ctg	gcg	ctg	192
Lys	Lys	Asp	Ile	Lys	Ala	Val	Thr	Tyr	His	Ile	Ser	Ser	Leu	Ala	Leu	
		50					55					60				
att	att	ttc	agt	ctt	aaa	gac	tcc	atc	tcc	ctg	gcg	aca	gag	gaa	cgc	240
Ile	Ile	Phe	Ser	Leu	Lys	Asp	Ser	Ile	Ser	Leu	Ala	Thr	Glu	Glu	Arg	
	65					70				75						
ttg	gaa	cgt	atc	cgt	tct	ggc	ctt	ttc	aaa	caa	gtg	cag	caa	gct	cgt	288
Leu	Glu	Arg	Ile	Arg	Ser	Gly	Leu	Phe	Lys	Gln	Val	Gln	Gln	Ala	Arg	
80					85					90					95	
gag	tgc	atg	gta	gac	gag	gag	aac	aag	aac	acg	gag	gag	gac	agt	aca	336
Glu	Cys	Met	Val	Asp	Glu	Glu	Asn	Lys	Asn	Thr	Glu	Glu	Asp	Ser	Thr	
				100					105					110		
tca	caa	cat	cct	cac	tca	gag	ggc	ttc	aag	gca	gtc	tac	ctg	gaa	ttg	384
Ser	Gln	His	Pro	His	Ser	Glu	Gly	Phe	Lys	Ala	Val	Tyr	Leu	Glu	Leu	
			115					120					125			
aac	aag	tat	ttc	ttc	cgt	atc	cgt	aag	ttc	ctg	gta	aat	aag	aaa	tac	432
Asn	Lys	Tyr	Phe	Phe	Arg	Ile	Arg	Lys	Phe	Leu	Val	Asn	Lys	Lys	Tyr	
		130					135					140				
agt	ttc	tgt	gcc	tgg	aag	att	gtc	gtg	gtg	gaa	att	cgt	cgt	tct	ttc	480
Ser	Phe	Cys	Ala	Trp	Lys	Ile	Val	Val	Val	Glu	Ile	Arg	Arg	Ser	Phe	
	145					150				155						
agt	att	ttt	tac	aaa	ctg	ctg	aac	atg	aat	taatggatcc						520
Ser	Ile	Phe	Tyr	Lys	Leu	Leu	Asn	Met	Asn							
160					165											

FIG. 6

tctagaaagg aggaataaca t atg tgt aac ctg ctg aac gtt cac ctg cgt	51
Met Cys Asn Leu Leu Asn Val His Leu Arg	
1 5 10	
cgt gtt acc tgg caa aat ctg aga cat ctg agt agt atg agc aat tca	99
Arg Val Thr Trp Gln Asn Leu Arg His Leu Ser Ser Met Ser Asn Ser	
15 20 25	
ttt cct gta gaa tgt cta cga gaa aac ata gct ttt gag ttg ccc caa	147
Phe Pro Val Glu Cys Leu Arg Glu Asn Ile Ala Phe Glu Leu Pro Gln	
30 35 40	
gag ttt ctg caa tac acc caa cct atg aag agg gac atc aag aag gcc	195
Glu Phe Leu Gln Tyr Thr Gln Pro Met Lys Arg Asp Ile Lys Lys Ala	
45 50 55	
ttc tat gaa atg tcc cta cag gcc ttc aac atc ttc agc caa cac acc	243
Phe Tyr Glu Met Ser Leu Gln Ala Phe Asn Ile Phe Ser Gln His Thr	
60 65 70	
ttc aaa tat tgg aaa gag aga cac ctg aaa caa atc caa ata gga ctt	291
Phe Lys Tyr Trp Lys Glu Arg His Leu Lys Gln Ile Gln Ile Gly Leu	
75 80 85 90	
gat cag caa gca gag tac ctg aac caa tgc ttg gag gaa gac gag aat	339
Asp Gln Gln Ala Glu Tyr Leu Asn Gln Cys Leu Glu Glu Asp Glu Asn	
95 100 105	
gaa aat gaa gac atg aaa gaa atg aaa gag aat gag atg aaa ccc tca	387
Glu Asn Glu Asp Met Lys Glu Met Lys Glu Asn Glu Met Lys Pro Ser	
110 115 120	
gaa gcc agg gtc ccc cag ctg agc agc ctg gaa ctg agg aga tat ttc	435
Glu Ala Arg Val Pro Gln Leu Ser Ser Leu Glu Leu Arg Arg Tyr Phe	
125 130 135	
cac agg ata gac aat ttc ctg aaa gaa aag aaa tac agt gac tgt gcc	483
His Arg Ile Asp Asn Phe Leu Lys Glu Lys Lys Tyr Ser Asp Cys Ala	
140 145 150	
tgg gag att gtc cga gtg gaa atc cgt cgt tgc ctg tac tac ttt tac	531
Trp Glu Ile Val Arg Val Glu Ile Arg Arg Cys Leu Tyr Tyr Phe Tyr	
155 160 165 170	
aaa ttt acc gct ctg ttc cgt cgt aaa taatggatcc	568
Lys Phe Thr Ala Leu Phe Arg Arg Lys	
175	

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